



NCDOT Prioritization 3.0 Project Summary

SPOT ID: H090133-A

Mode: Highway

Status: Submitted

NC-87

From/Cross Street: Elizabethtown Bypass

Specific Improvement Type: 1 - Widen Existing Roadway

To: SR 1730 (Elwell Ferry Road)

Project Category: Statewide Mobility

Length: 14.44

TIP#: R-2561A

Fully Funded in Draft STIP? No

Cost to NCDOT: \$77,600,000

Description:

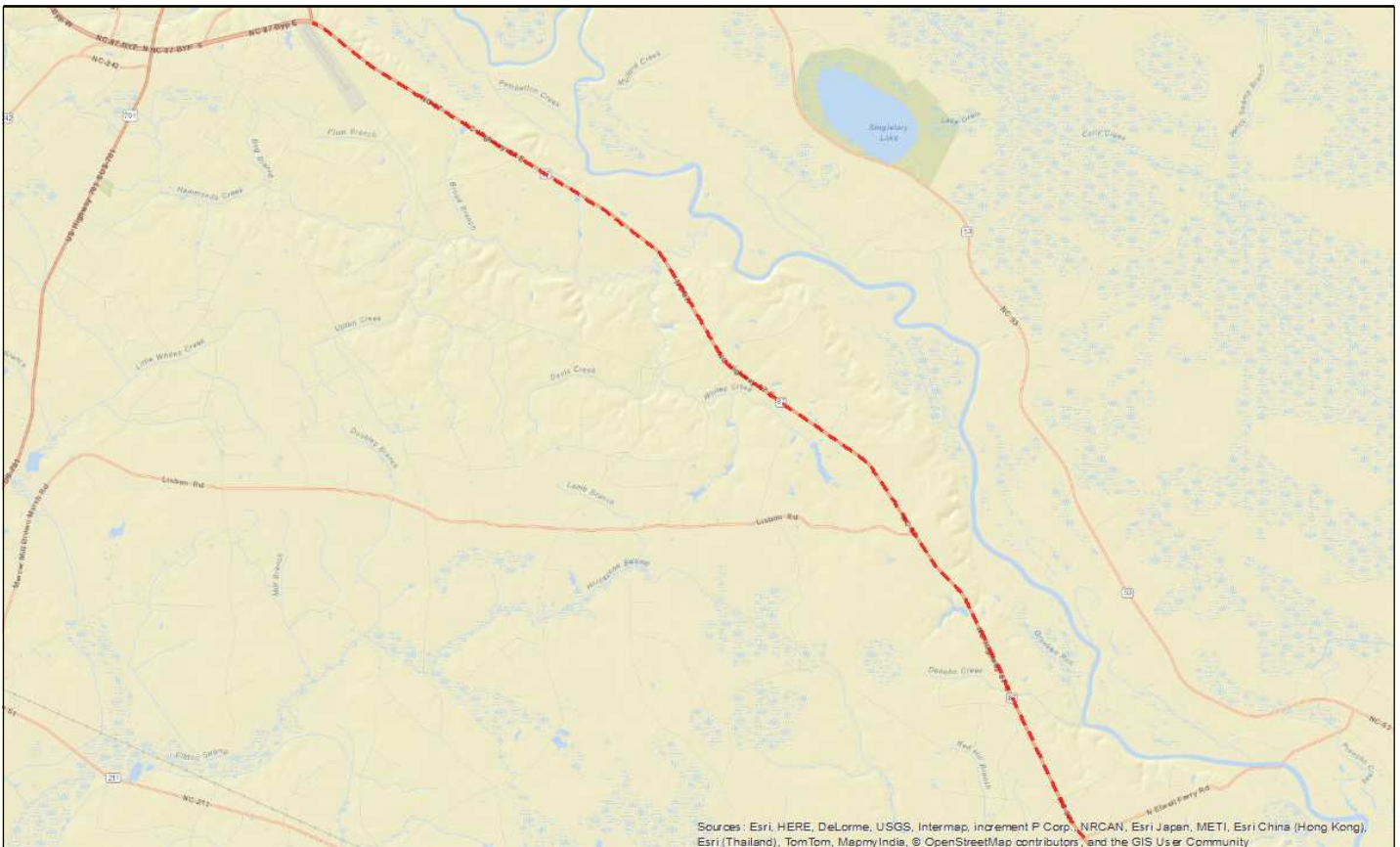
Widen to Multi-Lanes.

Division(s): Division 6

County(s): BLADEN

MPOS(s)/RPO(s): Mid-Carolina RPO

Project Location



Statewide Mobility Total Score: 11.21

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|--|---|---------------------------------------|
| Safety (10%) 48.70 Economic Competitiveness (10%) 0.13 Multimodal + [Freight & Military] (20%) 8.33 [Travel Time] Benefit/Cost (30%) 0.02 Congestion (V/C) (30%) 15.52 | N/A | N/A |
| Totals: Weight: 100% Weighted Score: 11.21 | | |

Regional Impact Total Score: 25.88

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|---------------------------------------|
| Accessibility / Connectivity (10%) 21.27 Safety (10%) 48.70 [Travel Time] Benefit/Cost (25%) 0.02 Congestion (V/C) (25%) 15.52 | Percent: 15% Points: 0 | Percent: 15% Points: 100 |
| Totals: Weight: 70% Weighted Score: 10.88 | | |

Division Needs Total Score: 7.98

| Quantitative Score | Division Engineer Local Input Points | MPO/RPO Local Input Points |
|---|---|---------------------------------------|
| Congestion (V/C) (20%) 15.52 Safety (10%) 48.70 [Travel Time] Benefit/Cost (20%) 0.02 | Percent: 25% Points: 0 | Percent: 25% Points: 0 |
| Totals: Weight: 50% Weighted Score: 7.98 | | |

Project Data ***Existing Conditions**

| | |
|---|------------------|
| Existing Cross-Section: | |
| Speed Limit: | 55 |
| Length (miles): | 14.44 |
| Facility Type: | Two Lane Highway |
| Access Control: | None |
| Functional Classification: | Minor Arterial |
| Terrain Type: | Level |
| Lane Width: | 12 |
| Paved Shoulder Width: | 4 |
| Roadway has Curb & Gutter? | No |
| Volume (AADT): | 3758.04 |
| Capacity: | 16092.23 |
| Volume/Capacity Ratio: | 0.23 |
| % Autos: | 87% |
| % Trucks: | 13% |
| Truck Volume: | 499.27 |
| Crash Density: | 54.53 |
| Crash Severity: | 49.71 |
| Critical Crash Rate: | 41.87 |
| Crash Frequency: | 0 |
| Severity Index: | 0 |
| County Tier Designation: | 1 |
| Non-Interstate STRAHNET Route? | Yes |
| Average Commuting Time: | 25 |
| Existing Median Type (for Cost Estimation): | Undivided |
| Pavement Condition Rating: | 99 |
| Actual Congested Speed: | 49.3 |
| Travel Time Index: | 1.11 |

Project Benefits

| | |
|--|---|
| Project Cross-Section: | 4A - 4 Lane Divided (46' Depressed Median) with Paved Shoulders |
| Speed Limit: | 55 |
| Length (miles): | 14.44 |
| Facility Type: | Multi-Lane Highway |
| Access Control: | Partial |
| Functional Classification: | Other Principal Arterial |
| Terrain Type: | Level |
| DOT Design Lane Width: | 12 |
| DOT Design Paved Shoulder Width: | 0 |
| Travel Time Savings for 30 Years (Total): | 76960.43 |
| Travel Time Savings for 30 Years (Autos): | 66736.03 |
| Travel Time Savings for 30 Years (Trucks): | 10224.4 |
| Long-Term Employment: | 1 |
| % Change in Economy: | 1.66E-06 |
| Provides Direct Connection to Transportation Terminal? | No |
| Does project upgrade how the roadway functions? | Yes |
| In CTP or LRTP? | No |
| CTP/LRTP Name: | |
| CTP/LRTP Completion Year: | |
| Submitted by: | Division 6 |

* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT OnLine tool and associated databases.

Project Ownership**Division**

| Division | Percent | Regional Impact | Division Needs |
|------------------------------|----------------|------------------------|-----------------------|
| Division 6 | 100% | 0 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL Division Points | | 0 | 0 |

MPO/RPO

| MPO/RPO | Percent | Regional Impact | Division Needs |
|-----------------------------|----------------|------------------------|-----------------------|
| Mid-Carolina RPO | 100% | 100 | 0 |
| | 0% | 0 | 0 |
| | 0% | 0 | 0 |
| TOTAL MPO/RPO Points | | 100 | 0 |

Project Cost and Source

| | | |
|------------------------|---------------------|----------|
| Construction Cost: | \$63,600,000 | TIP Unit |
| Right-of-Way Cost: | \$12,000,000 | TIP Unit |
| Utilities Cost: | \$2,000,000 | TIP Unit |
| Total Project Cost: | \$77,600,000 | |
| Other Funding: | \$0 | None |
| Cost to NCDOT : | \$77,600,000 | |